

METHODS OF FORMING A SUPPORTED ACTIVATED CATALYST COMPOSITION

ABSTRACT

5 Processes of forming a supported activated catalyst composition and method of
polymerization are disclosed, the process of forming the composition including combining
a halogenated aromatic aluminum activator compound with a fluorinated support and a
catalyst to form a supported activated catalyst composition. Also disclosed is a supported
activated catalyst composition, comprising the reaction product of a fluorinated support, a
10 perfluorophenyl aluminum activator and in one embodiment a metallocene catalyst. In
one embodiment, the halogenated aromatic aluminum activator is represented by the
formula $R_nAl(ArHal)_{3-n}$, wherein $ArHal$ is a halogenated aryl group, R is a monoanionic
ligand, and n is 1 or 2.